

**METHOD AND APPARUTUS FOR MULTI-BAND OPTICAL SWITCHING  
USING MULTI-PUMP PARAMETRIC DEVICES**

**ABSTRACT OF THE DISCLOSURE**

5           A method of multiple-band switching using a multi-pump fiber parametric  
switch is demonstrated. The switching architecture combines parametric band  
amplification, wavelength conversion and selective signal conjugation, enabled  
by temporal control of at least one pump of the multi-pump parametric device.  
The switching speed of the present invention is limited by the rise time of the  
10   controlled pump(s).